BRAIN RESEARCH

VOL. 869 NO. 1-2 **CONTENTS** **30 JUNE 2000**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – EMBASE/Excerpta Medica – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Elsevier BIOBASE/Current Awareness in Biological Sciences

Announcement: Call for papers–Gene Expression Patterns v

Announcement: Brain Research Interactive Young Investigator Awards vi

Interactive reports (Also accessible on the World Wide Web at **http://www.elsevier.nl/locate/bres** or **http://www.elsevier.com/locate/bres**)

Morphological bases for a role of nitric oxide in adult neurogenesis
B. Moreno-López, J.A. Noval, L.G. González-Bonet, C. Estrada (Spain) 244

Human hearing enhanced by noise
F.-G. Zeng, Q.-J. Fu, R. Morse (USA, UK) 251

Research reports

Stress-induced analgesia in μ-opioid receptor knockout mice reveals normal function of the δ-opioid receptor system
C.J. LaBuda, I. Sora, G.R. Uhl, P.N. Fuchs (USA) 1

Extracellular hypothalamic serotonin levels after dorsal raphe nuclei stimulation of lean (*Fa/Fa*) and obese (*fa/fa*) Zucker rats
B.A. De Fanti, D.A. Gavel, J.S. Hamilton, B.A. Horwitz (USA) 6

Different disruptive effects on the acquisition and expression of conditioned taste aversion by blockades of amygdalar ionotropic and metabotropic glutamatergic receptor subtypes in rats
Y. Yasoshima, T. Morimoto, T. Yamamoto (Japan) 15

Expression and glucocorticoid regulation of macrophage migration inhibitory factor (MIF) in hippocampal and neocortical rat brain cells in culture
H. Vedder, J.-C. Krieg, B. Gerlach, D. Gemsa, M. Bacher (Germany) 25

Opposite effects of sulpiride and SCH 23390 on ethanol-induced striatal ascorbic acid release in intact and 6-hydroxydopamine lesioned rats
W. Liu, C.F. Wu, M. Huang, K. Xiao (PR China) 31

Depletion of intracellular zinc induces macromolecule synthesis- and caspase-dependent apoptosis of cultured retinal cells
H.J. Hyun, J. Sohn, Y.-H. Ahn, H.-C. Shin, J.-Y. Koh, Y.H. Yoon (South Korea) 39

The distribution and localization of hsp110 in brain
B.L. Hylander, X. Chen, P.C.F. Graf, J.R. Subjeck (USA) 49

On the altered expression of tyrosine hydroxylase and calbindin-D 28kD immunoreactivities and viability of neurons in the ventral tegmental area of Tsai following injections of 6-hydroxydopamine in the medial forebrain bundle in the rat
Y. Tan, E.A. Williams, A.J. Lancia, D.S. Zahm (USA) 56

Activity-dependent slow hyperpolarization in cat sensorimotor cortex in vitro
H. Kitagawa, Y. Nishimura, Y. Kumazawa, T. Akamine, T. Yamamoto (Japan) 69

Antidepressant effects on GABA-stimulated $^{36}Cl^-$ influx in rat cerebral cortex are altered after treatment with $GABA_A$ receptor antisense oligodeoxynucleotides
E. Malatynska, G.J. Crites, D. Harrawood, R. Goldenberg, G.K. Matheson (USA) 78

Cocaine inhibits NGF-induced PC12 cells differentiation through D_1-type dopamine receptors
D.A. Zachor, J.F. Moore, C. Brezausek, A. Theibert, A.K. Percy (USA) 85

A comparison of the behavioral effects of the repeated administration of PTT, 2β-propanoyl-3β-(4-tolyl)tropane and cocaine
C.S. Freedland, H.R. Smith, S.L. Hart, J.B. Daunais, H.M.L. Davies, L.J. Porrino (USA) 98

Reduction of the DNA base excision repair protein, XRCC1, may contribute to DNA fragmentation after cold injury-induced brain trauma in mice
M. Fujimura, Y. Morita-Fujimura, N. Noshita, T. Yoshimoto, P.H. Chan (USA, Japan) 105

Leukocyte adherence contributes to disruption of the blood–brain barrier during activation of mast cells
W.G. Mayhan (USA) 112

Hand orientation for grasping depends on the direction of the reaching movement
A. Roby-Brami, N. Bennis, M. Mokhtari, P. Baraduc (France) 121

Western blotting for detection of glucocorticoid receptors in the brain and pituitary gland from adrenal intact pigs
S.A. Weaver, A.L. Schaefer, W.T. Dixon (Canada) 130

(Contents continued inside)

0006-8993(20000630)869:1/2;1-B

(contents continued)

Developmental regulation of two isoforms of Ca^{2+}/calmodulin-dependent protein kinase I β in rat brain
O.-P. Løseth, L. de Lecea,, M. Calbet, P.E. Danielson, V. Gautvik, P.I. Høvring, S.I. Walaas, K.M. Gautvik (Norway, USA) 137

Norepinephrine modulates single hypothalamic arcuate neurons via $\alpha_1$and β adrenergic receptors
Y.-M. Kang, W. Ouyang, J.-Y. Chen, J.-T. Qiao, N. Dafny (People's Republic of China, USA) 146

Presynaptic inhibitory receptors mediate the depression of synaptic transmission upon hypoxia in rat hippocampal slices
J.E. Coelho, A. de Mendonça, J.A. Ribeiro (Portugal) 158

Hypoxic modulation of L-type Ca^{2+} channels in inspiratory brainstem neurones: Intracellular signalling pathways and metabotropic glutamate receptors
S.L. Mironov, D.W. Richter (Germany) 166

Localization of serotonin$_{5A}$ receptors in discrete regions of the circadian timing system in the Syrian hamster
M.J. Duncan, L. Jennes, J.B. Jefferson, M.S. Brownfield (USA) 178

Prenatal morphine exposure enhances seizure susceptibility but suppresses long-term potentiation in the limbic system of adult male rats
L. Velíšek, P.K. Stanton, S.L. Moshé, I. Vathy (USA) 186

Serotonergic neurons projecting to hippocampus activate locomotion
H. Takahashi, Y. Takada, N. Nagai, T. Urano, A. Takada (Japan) 194

Investigation of the melanocyte stimulating hormones on food intake. Lack of evidence to support a role for the melanocortin-3-receptor
C.R. Abbott, M. Rossi, M.-S. Kim, S.H. AlAhmed, G.M. Taylor, M.A. Ghatei, D.M. Smith, S.R. Bloom (UK) 203

Short communications

NMDA-induced changes in a cortical network in vivo are prevented by AMPA
J.I. Addae, S.M. Evans, N. Ali, T.W. Stone (Trinidad and Tobago, UK) 211

Increased cerebrospinal fluid Fas (Apo-1) levels in Alzheimer's disease. Relationship with IL-6 concentrations
M. Martínez, E. Fernández-Vivancos, A. Frank, M. De la Fuente, A. Hernanz (Spain) 216

Calretinin co-localizes with the NMDA receptor subunit NR1 in cholinergic amacrine cells of the rat retina
C.M. Araki, D.E. Hamassaki-Britto (Brazil) 220

Mechanosensitive whole-cell currents in cultured rat somatosensory neurons
A. Takahashi, H. Gotoh (Japan) 225

Role of NOC/oFQ in impaired opioid-induced pial artery dilation following brain injury
W.M. Armstead (USA) 231

Ventral subicular lesion alters rhythmical slow wave activity (θ) of CA1 area of hippocampus and entorhinal cortex
T.R. Laxmi, B.L. Meti, P.N. Bindu (India) 236

Increased tumor necrosis factor and interleukin-6 production in the central nervous system of interleukin-10-deficient mice
D. Agnello, P. Villa, P. Ghezzi (Italy) 241

Author Index 256

CONTENTS direct

This journal is part of **ContentsDirect**, the ***free*** alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: **www.elsevier.nl/locate/contentsdirect**